Dimming Ideas Applying Values

STRUCT GEOTECH RESEARCH LABORATORIES (P) LTD

JAS-ANZ
BSCIC
ISO 9001 REGISTERED

No. 588, 2nd Main, 6th Block
Hosakerehalli Cross
Banashankari III Stage, II Phase
Bangalore - 560 085, India

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SGRL//BBMP/RRNZ/2014-15/320 30.05.2014

To
The Assistant Executive Engineer
Rajarajeshwarinagara Projects
Bruhath Bangalore Mahanagara Palike
Bangalore

Sir,

Sub: Quality Control Tests on materials for the work of Providing repairs to kerb painting, Bench fixing to sundaranagara park in ward no.17 in Rajarajeshwarinagara zone

Ref: 1. W.O. No. EE/QC/Div-2/PR/324/11-12, dt. 18.03.2013
2. Letter no. NO/AEE/(P)/RRNZ/BBMP/PR/2013-14, dt: 27.02.2014

With reference to the above cited subject, herewith we are submitting the reports pertaining to 40mm Aggregate, 20mm Aggregate, Sand, Cement, & Kerb stone test reports. Kindly acknowledge the same upon receipt of Test reports.

This is for your kind information.

Thanking you

Yours faithfully

For Struct Geotech Research Laboratories Private Limited

Authorized Signature

AE.17

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ವಿಭಾಗ-01

Report No.: SGRL / CM /900/ 14 - 15 20.05.2014

TEST REPORT

Client*	:	The Assistant Executive Engineer Rajarajeshwarinagara Projects Bruhath Bengaluru Mahanagara Palike Bangalore
Client Reference*	:	AEE(P)/RRNZ/BBMP/PR/2013-14, dt:27.02.2014
Job Reference *	:	EE/QC/Div-2/PR/324/11-12, dated 18.03.2013
CSR No	:	CM 295, dt: 20.05.2014
Name of the work*	:	Providing repairs to Kerb painting, Bench fixing to Sundaranagara park in ward no.17 in Rajarajeshwarinagara Zone
Contractor*	:	M/s. K R I D L
Source of Sample	:	Sample supplied of TPIA
Sample Id*	:	Sundaranagara park in ward no.17 –M15 for Concrete fixing for Grill, grate, Sump tank work
Date of receipt	:	20.05.2014
Date of testing	:	20.05.2014
Type of sample	:	Coarse Aggregate - 20mm and down size
Name of test	:	Sieve Analysis

IS Sieve Designation	Cumulative Percent Passing		Test Method
	Test Result	Requirement as per Table – 1000-1 of MoRT&H	
40.00 mm	100	100	IS: 2386 (Part 1) - 1963
20.00 mm	95.10	95-100	
10.00 mm	25.93	25-55	
4.75 mm	0.92	0-10	

For Struct Geotech Research Laboratories Pvt. Ltd.,

Authorized Signature
B. Venkata Subramanyam
Executive Director

Note: (i) The Results relate only to the items tested (ii) This test report should not be reproduced except in full, without written approval of this laboratory (iii) Any corrections invalidates this report (iv) Any Query regarding the report must be reported immediately
***Information as furnished by TPIA**

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

No.: 588, 2nd Main, 6th Block, Hosakerehalli Cross, Banashankari III Stage, II Phase, Bangalore- 560 085

Report No.: SGRL / CM /901/ 14 - 15

20.05.2014

TEST REPORT

Client* : The Assistant Executive Engineer
Rajarajeshwarinagara Projects
Bruhath Bengaluru Mahanagara Palike
Bangalore

Client Reference* : AEE(P)/RRNZ/BBMP/PR/2013-14, dt:27.02.2014
Job Reference* : EE/QC/Div-2/PR/324/11-12,dated 18.03.2013
CSR No. : CM 295, dt: 20.05.2014
Name of the Project* : Providing repairs to Kerb painting, Bench fixing to Sundaranagara park in ward no.17 in Rajarajeshwarinagara Zone

Contractor* : M/s. K R I D L
Source of Sample : Sample supplied of TPIA
Sample ID* : Sundaranagara park in ward no.17 – PCC 1:4:8 & M15 for Inside Path way work & Concrete fixing for grill, Gate, Sump tank work

Type of Sample : Sand
Name of Test : Sieve Analysis
Date of Receipt : 20.05.2014
Date of Testing : 20.05.2014
Test Method : IS : 2386 (Part 1) 1963

Sl. No.	Sieve Size (mm)	Weight Retained	% Weight Retained	Cumulative % of Weight Retained	% of Weight Passing	Specifications as Per MoRT&H
1	10	0.00	0.00	0.00	100.00	100.00
2	4.75	10.12	2.02	2.02	97.98	90-100
3	2.36	26.56	5.31	7.34	92.66	75-100
4	1.18	130.29	26.06	33.39	66.61	55-90
5	0.60	152.23	30.45	63.84	36.16	35-59
6	0.30	128.90	25.78	89.62	10.38	8-30
7	0.15	51.23	10.25	99.87	0.13	0-10

The Sand tested conforms to Zone II as per MoRT& H (Fourth Revision)

For Struct Geotech Research Laboratories Private Limited

Authorised Signature
Dr. Venkata Subramanyam
Executive Director

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***Information as furnished by the TPIA**

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಆರ್.ಆರ್. ನಗರ ಯೋಜನೆ ಉಪ-ವಿಭಾಗ-01
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

No. 2, 2nd Main, 6th Block, Hosakerehalli Cross, Banashankari III Stage, II Phase, Bangalore- 560 085

Report No.: SGRL / CM /902/ 14-15 30.05.2014

TEST REPORT

Client* : The Assistant Executive Engineer
Rajarajeshwarinagara Projects
Bruhath Bengaluru Mahanagara Palike
Bangalore

Client Reference* : AEE(P)/RRNZ/BBMP/PR/2013-14, dt:27.02.2014

Job Reference * : EE/QC/Div-2/PR/324/11-12, dated 18.03.2013

CSR No : CM 295, dt: 20.05.2014

Name of the work* : Providing repairs to Kerb painting, Bench fixing to Sundaranagara park in ward no.17 in Rajarajeshwarinagara Zone

Contractor* : M/s. K R I D L

Source of Sample : Sample supplied of TPIA

Sample Id* : Sundaranagara park in ward no.17 – PCC 1:4:8 & M15 for Inside Path way work & Concrete fixing for grill, Gate, Sump tank work

Date of receipt : 20.05.2014

Date of testing : 20.05.2014 to 30.05.2014

Type of Sample : Cement

Type of Cement*: OPC **Grade of Cement*:** 53 **Brand*:** Birla Super

Sl. No.	Description	Test Result	Requirements as per IS: 12269-1987	Test Method
1.	Setting Time			
	a) Initial Setting Time	190 min	Min.30 min	IS 4031 (Part V)
	b) Final Setting Time	420 min	Max.600 min	
2.	Standard Consistency	30.0 %	-	IS: 4031 (Part IV)
3.	Compressive Strength (i) 3 days (72 ± 1h) (average of three results)	27.5 N/mm^2	Not less than 27 N/mm^2	IS: 4031 (Part VI)

For Struct Geotech Research Laboratories Pvt. Ltd.,

Authorized Signature
B. Venkata Subramanyam
Executive Director

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***Information as furnished by TPIA**

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಉಪ-ವಿಭಾಗ-01
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

No.: 588, 2nd Main, 6th Block, Hosekerehalli Cross, Banashankari III Stage, II Phase, Bangalore- 560 085

Report No.: SGRL / CM / 904/ 14-15

30.05.2014

TEST REPORT

Client* : The Assistant Executive Engineer
Rajarajeshwarinagara Projects
Bruhath Bengaluru Mahanagara Palike
Bangalore

Client Reference* : AEE(P)/RRNZ/BBMP/PR/2013-14, dt:27.02.2014

Job Reference* EE/QC/Div-2/PR/324/11-12, dt: 18.03.2013

CSR No. : CM 295, dt: 20.05.2014

Name of the Work* : Providing repairs to Kerb painting, Bench fixing to Sundaranagara park in ward no.17 in Rajarajeshwarinagara Zone

Contractor* : M/s. K R I D L

Source of sample : Sample supplied of TPIA

Sample ID* : Sundaranagara park in ward no.17 – for Inside pathway side work

Grade of Concrete* : CC 1:2:4

Date of Receipt : 20.05.2014

Date of Testing : 30.05.2014

Name Test : Concrete Core Compressive Strength of precast solid concrete kerb stone

Technical : IS : 516 - 1959, SP - 24 : 1983

Sl. No.	Identification*	Core Details				H / D ratio	Correction factor for H/D	Failure Load (kN)	Core Strength (N/mm^2)	Corrected Core Strength for Diameter (N/mm^2)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
		Dia, D (mm)	Height, H (mm)	Weight (kg)	Density (kg/m^3)							
1	CM 295-e_1	74.0	139.21	1.45	2423.1	1.88	0.99	62.0	14.42	15.58	15.38	19.22
2	CM 295-e_2	74.0	138.10	1.48	2493.1	1.87	0.99	64.0	14.89	16.08	15.85	19.81
3	CM 295-e_3	74.0	138.12	1.43	2408.5	1.87	0.99	63.0	14.66	15.83	15.60	19.50

Correction factor : from Fig. 1 of IS: 516 - 1959
Core Strength : Failure Load / Cross sectional area of Core
Corrected Core Strength for Diameter : 1.08 x Core Strength
Corrected Cylinder Compressive Strength : Corrected Core Strength x Correction factor
Equivalent Cube Compressive Strength : 1.25 x Corrected Cylinder Compressive Strength

For Struct Geotech Research Laboratories Private Limited

Authorized Signature
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Executive Director

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****** end of the test report ******

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ಆರ್.ಆರ್. ನಗರ ವಿಭಾಗ-01
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ